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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 09/910,227 | 07/20/2001 | Mark A. Ross | 10243 | 1652 |

26327 7590 09/08/2005

THE LAW OFFICE OF KIRK D. WILLIAMS
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| EXAMINER |
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BAKER, PAUL A

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| ART UNIT | PAPER NUMBER |
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2188

DATE MAILED: 09/08/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/910,227

Applicant(s)

ROSS, MARK A.

Examiner

Paul A. Baker

Art Unit

2188

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 13 June 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-58 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-30 and 39-54 is/are allowed.
- 6) ☒ Claim(s) 31-38 and 55-58 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 05/02/2005.
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: _____.

DETAILED ACTION

Applicant is advised that the Application Number of the present application is 09/910,227. Applicant should file future correspondence with the correct application number in order to avoid problems with the office matching the filed papers with the case.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 31-38, 55-58 are rejected under 35 U.S.C. 102(b) as being anticipated by White et al., US Patent 5,845,324.

In regards to claim 31, White discloses an apparatus comprising:

a content-addressable memory in figure 3a to receive an input 16 bit address from element 55p to CAMs 0-3 and to generate an index PC_AD(17:0);

a memory element 56, coupled to the content-addressable memory and a comparison mechanism, to receive the index and to generate a data protection field signal from element 56 to parity check element;

a data protection generator, coupled to the content-addressable memory and the comparison mechanism, to receive the index and to generate a comparison in column 7 line 58; and

the comparison mechanism to compare the comparison value and the data protection field in column 7 line 59.

In regards to claim 32, White discloses the content-addressable memory includes a binary content-addressable memory, in column 8 lines 12-34, White does not disclose the use of a masks or that the CAM is ternary, therefore the CAM disclosed by White is a binary CAM.

In regards to claim 33, White discloses a method comprising:

generating an index in figure 3a signal PC_AD(17:0) by a content-addressable memory CAMs 0-3 based on an input value 16 bit address from element 55p to CAMs 0-3;

generating a comparison value based on the index in column 7 line 58;

acquiring a data protection field based on the index element 56; and

comparing the comparison value to the data protection field in column 7 line 59.

In regards to claim 34, White discloses the data protection field includes a pre-computed data protection result in column 8 line 46.

In regards to claim 35, White discloses the content-addressable memory includes a binary content-addressable memory, in column 8 lines 12-34, White does not disclose the use of a masks or that the CAM is ternary, therefore the CAM disclosed by White is a binary CAM.

In regards to claim 36, White discloses acquiring the data protection field includes a lookup operation on a memory in column 8 lines 45-47.

In regards to claim 37, White discloses generating the comparison value includes applying a data protection function to the index in column 7 line 58.

In regards to claim 38, White discloses signaling an error condition if the comparison value is not equal to the data protection field in figure 3b tag parity error signal.

In regards to claim 55, White discloses an apparatus comprising:
means for generating an index based on an input value in figure 3a CAMs 0-3;
means for generating a comparison value based on the index in figure 3a parity check module;
means for acquiring a data protection field based on the index in figure 3a element 56; and

means for comparing the comparison value to the data protection field in column 7 line 59.

In regards to claim 56, White discloses generating the index based on the input value includes a binary content-addressable memory, in column 8 lines 12-34, White does not disclose the use of a masks or that the CAM is ternary, therefore the CAM disclosed by White is a binary CAM.

In regards to claim 57, White discloses acquiring the data protection field includes means for performing lookup operation on a memory in column 8 lines 45-47.

In regards to claim 58, White discloses signaling an error condition if the comparison value is not equal to the data protection field in figure 3b tag parity error signal.

Response to Arguments

Applicant's arguments, see amendment, filed 13 June 2005, with respect to 1-32, 39-54 have been fully considered and are persuasive. The rejection of claims 1-22, 31-32, 39-54 has been withdrawn.

Applicant's arguments, see amendment, filed 13 June 2005, with respect to the rejection(s) of claim(s) 33-38 and 55-58 under Bechtolsheim et al., US Patent

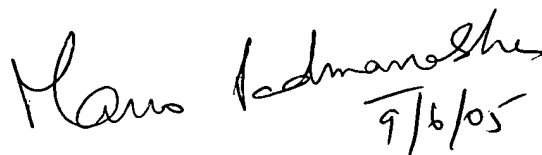
6,377,577, have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of White et al., US Patent 5,845,324.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul A. Baker whose telephone number is (571)272-4203. The examiner can normally be reached on M-F 10am-6:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mano Padmanabhan can be reached on (571)272-4210. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PB



MANO PADMANABHAN
SUPERVISORY PATENT EXAMINER